1   1. (Amended) A communication interface device for managing wireless data

2   communications between an in-vehicle device installed in a vehicle and a

3   plurality of global network based data processing resources, said communication

4   interface device being located external to said vehicle, said communication

5   interface device comprising:

6

7   a controller;

8

9   a wireless transceiver interconnected with said controller for wirelessly data

10   communicating between said in-vehicle device and said communication

11   interface device;

12

13   a plurality of communication interfaces interconnected with said controller for

14   data communicating between said communication interface device and said

15   plurality of global network based data processing resources; and

16

17   a memory interconnected with said controller for managing data

18   communication between said wireless transceiver, and said plurality of

19   communication means;

20

21   wherein, data communication between said in-vehicle device and said plurality of

22   global network based data processing resources is effectuated by way of said

23   communication interface device.

24

1   2. (Amended) The communication interface device in accordance with claim 1,

2   wherein said plurality of communication interfaces includes at least one of the

3   following communication interface types: a universal serial bus port, a personal

4   data assistant interface, an RS232 interface, an RS485 interface, a carrier current

5   interface, a network connection to the internet, a modem interface, a wireless

6   modem interface, a cellular phone transceiver, a cellular phone interface, a

7   wireless data link, or a local area network interface.

8

1   3.   (Amended) The communication interface device in accordance with claim 1,

2   wherein said plurality of interfaces is a computer interface to a computer, said

3   computer having data communication access to said plurality of global network

4   based data processing resources, such that said in-vehicle device, by way of said

5   computer interface, data communicates with at least one of the following: said

6   computer, or said plurality of global network based data processing resources.

7

1   4.   (Amended) The communication interface device in accordance with claim 1,

2   wherein said communication interface device and said in-vehicle device data

3   communicate with at least one of the following: a programmable storage device, a

4   computer, a pocket sized personal computer, a pager, a wireless phone, or a

5   personal data assistant.

6

1   5.   (Amended) The communication interface device in accordance with claim 1,

2   wherein said communication interface device is an internet appliance device.

3

1   6.   (Amended) The communication interface device in accordance with claim 1,

2   wherein said communication interface device is interconnected with at least one

3   of the following: a computer, a pocket sized personal computer, a point of sale

4   system, a database, a garage door opener, a gas pump, a toll booth, a change toll

5   booth, a wireless toll-pass system, a traffic light pole, a pole, a traffic light, a

6   parking gate, a parking terminal, a store display, an internet appliance device, or a

7   vehicle analyzer.

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1   7.   (Amended) A method of monitoring the location of a vehicle equipped with an in-

2   vehicle device, said in-vehicle device wirelessly data communicates with a

3   plurality of global network based data processing resources, wherein wireless data

4   communication between said in-vehicle device and said plurality of global

5   network based data processing resources is effectuated by a communication

6   interface device, said method comprising the steps of:

7

8   from said communication interface device client side:

9

10   a) receiving a data communication at said communication interface device

11   from said in-vehicle device, said data communication occurring when said in-

12   vehicle device is in wireless proximity with said communication interface

13   device;

14

15   b) routing said data communication to said plurality of global network based

16   data processing resources;

17

18   c) receiving a plurality of return data from said plurality of global network

19   based data processing resources;

20

21   d) communicating wirelessly said plurality of return data to said in-vehicle

22   device;

23

24   from said plurality of global network based data processing resources server side:

25

26   e) identifying said data communication received from said communication

27   interface device;

28

29   f) modifying a vehicle location database;

30

31   g) determining appropriate said plurality of return data; and

32

33   h) communicating said plurality of return data to said communication

34   interface device for wireless data communication to said in-vehicle device.

35

1   8.   (Amended) The method of monitoring the location of a vehicle in accordance

2   with claim 7, wherein the step of receiving return data includes receiving

3   command and control data from said plurality of global network based data

4   processing resources.

5

1   9.   (Amended) The method of monitoring the location of a vehicle in accordance

2   with claim 7, wherein said communication interface device is an internet

3   appliance device.

4

1   10. (Amended) The method of monitoring the location of a vehicle in accordance

2   with claim 7, wherein the step of modifying a vehicle location database includes

3   modifying said vehicle location database for at least one of the following

4   applications: regulating attendance based on said vehicle entry to or exit from a

5   parking area, enabling or disabling operation of said vehicle when said vehicle

6   passes in wireless proximity to said communication interface device, route or trip

7   progress tracking of said vehicle, calculating said vehicle rate of speed between a

8   plurality of checkpoints, or calculating said vehicle rate of speed between said

9   plurality of checkpoints for the purpose of identifying speeders.

10

1   11. (Amended) A method of data communicating between a wireless device, a

2   plurality of global network based data processing resources, and an in-vehicle

3   device installed in a vehicle, said method comprising the steps of:

4

5   a) initiating data communication between said wireless device and said in-

6   vehicle device;

7

8   b) communicating a plurality of data between said in-vehicle device and said

9   wireless device;

10

11   c) routing said plurality of data from said wireless device to a communication

12   interface device, said communication interface device having data

13   communication access to a plurality of global network base data processing

14   resources;

15

16   d) receiving at said wireless device a plurality of return data as required from

17   said plurality of global network based data processing resources by way of

18   said communication interface device; and

19

20   e) communicating said plurality of return data between said wireless device

21   and said in-vehicle device.

22

1   12. (Amended) The method of data communicating between a wireless device, a

2   plurality of global network based data processing resources, and an in-vehicle

3   device in accordance with claim 11, wherein the step of communicating a

4   plurality of data between said in-vehicle device and said wireless device includes

5   data communicating at least one of the following types of data: said vehicle data,

6   said vehicle telemetry data, said vehicle metric data, said in-vehicle device data,

7   said in-vehicle device digital content, said in-vehicle device settings, said vehicle

8   data, said in-vehicle device system preferences, said in-vehicle device digital

9   audio content, or said in-vehicle device digital video content.

10

11

13. (Amended) The method of data communicating between a wireless device, a
    plurality of global network based data processing resources, and an in-vehicle
    device in accordance with claim 11, wherein said wireless device is at least one of
    the following: a wireless phone, a personal data assistant, a pager, a pocket sized
    personal computer, an internet appliance device, or a programmable data storage
    device.

14. (Amended) The method of data communicating between a wireless device, a
    plurality of global network based data processing resources, and an in-vehicle
    device in accordance with claim 11, wherein said wireless device data
    communicates with said in-vehicle device by way of at least one of the following
    methods: hard wired connection, infrared connection, BLUETOOTH standard and
    protocol, or WIRELESS APPLICATION PROTOCOL and standard.

15. (Amended) The method of data communicating between a wireless device, a
    plurality of global network based data processing resources, and an in-vehicle
    device in accordance with claim 11, wherein said communication interface device
    is an internet appliance device.

16. (Amended) The method of data communicating between a wireless device, a
    plurality of global network based data processing resources, and an in-vehicle
    device in accordance with claim 11, wherein said communication interface device
    is interconnected with an internet appliance device.

17. (Amended) A method of servicing a vehicle including procuring automotive
    replacement parts from a communication interface device, said communication
    interface device being accessible by a customer, said communication interface

9   device being located in an auto parts store, an auto parts area, a vehicle service

10   center, or a vehicle sales center, said method comprising the steps of:

11

12   a) allowing said customer to interact with said communication interface

13   device;

14

15   b) accessing digital content to aid said customer in a plurality of services or

16   products selection, wherein accessing digital content includes accessing at

17   least one of the following: local digital content, databases, or a plurality of

18   global network based data processing resources;

19

20   c) presenting digital content to said customer, including digital content related

21   to said plurality of services or products;

22

23   d) allowing said customer to physically select at least one of said plurality of

24   services or products from on-hand inventory;

25

26   e) determining, through customer interaction with said communication

27   interface device, if said customer successfully physically selected at least one

28   of said plurality of services or products from on-hand inventory;

29

30   f) allowing as required said customer to order any one or more of said

31   plurality of services or products by way of said communication interface

32   device; and

33

34   g) effectuating as required an e-commerce transaction, or an e-business

35   transaction to fulfill said customer's order.

36

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1   18. (Amended) The method of servicing a vehicle in accordance with claim 17 further

2   comprising the step of:

3

4   a) charging a plurality of fees for at least one of the following: said e-

5   commerce transaction, said e-business transaction, digital content, said

6   plurality of services or products, distributing said plurality of digital content,

7   for royalty payments, for service fees, for download charge, for network time,

8   for digital content access, time utilized charge, or for facilitating an e-

9·   commerce or e-business transaction.

10

1   20. (Amended) The method of servicing a vehicle in accordance with claim 17,

2   wherein the step of allowing a user to interact with said communication interface

3   device includes at least one of the following interactions: transferring data

4   between a wireless device and said communication interface device, manually

5   interacting with said communication interface device, voice recognition,

6   biometric recognition, keypad, general purpose said communication interface

7   device input or output, or touch screen input.

8

1   21. (Amended) The method of servicing a vehicle in accordance with claim 20,

2   wherein said wireless device is at least one of the following: a wireless phone, a

3   personal data assistant, a pager, a pocket sized personal computer, an internet

4   appliance device, or a programmable data storage device.

5

1   22. (Amended) A method of using a wireless device to transfer data between an in-

2   vehicle device installed in a vehicle and a computer located external to said

3   vehicle, said computer being interconnected with a communication interface

4   device, said computer data communicates with said wireless device by way of

5   said communication interface device comprising the steps of:

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a) initiating a data communication between said wireless device and said in-vehicle device;

b) transferring data between said wireless device and said in-vehicle device;

c) transporting said wireless device to a physical location external to said vehicle and in wireless proximity to said communication interface device, wherein data communication between said wireless device and said communication interface device is effectuated;

d) initiating a data communication between said wireless device and said communication interface device; and

e) transferring data between said wireless device and said computer by way of said communication interface device.

1

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23. (Amended) The method of using a wireless device to transfer data in accordance with claim 22, wherein said wireless device is at least one of the following: a wireless phone, a personal data assistant, a pager, a pocket sized personal computer, an internet appliance device, or a programmable data storage device.

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24. (Newly Added) The method of using a wireless device to transfer data in accordance with claim 22, wherein transferring data in steps b and e includes transferring data related to at least one of the following: data related to said vehicle, data related to said in-vehicle device, data related to said wireless device, data related to a user, data related to said user preferences, data from said computer, data stored within said wireless device or accessible by said wireless

7   device, a database, or data from said plurality of global network based data

8   processing resources

9

25. (Newly Added) The communication interface device in accordance with claim 1,

2   wherein:

3

4   data communicated between said in-vehicle device and said wireless

5   transceiver is processed and or routed by said controller to said plurality of

6   communication means for data communication to said plurality of global

7   network based data processing resources; and or

8

9   data communicated between said plurality of communication interfaces is

10   processed and or routed by said controller to said wireless transceiver for data

11   communication to said in-vehicle device

12

26. (Newly Added) The communication interface device in accordance with claim 1,

2   wherein the managing of data communication between said in-vehicle device and

3   said plurality of global network based data processing resources includes data and

4   or protocol conversion between said wireless transceiver and or said plurality of

5   communication means.

6

27. (Newly Added) The communication interface device in accordance with claim 1,

2   wherein said communication interface device manages data communication data

3   flow including caching data communications from said wireless transceiver and or

4   from said plurality of communication interfaces.

5

28. (Newly Added) The communication interface device in accordance with claim 4

2   wherein, data communication between said in-vehicle device and said

3   communication interface device is effectuated by transferring data between at

4   least one of the following: said computer, said pocket sized personal computer, a

5   point of sale system, said programmable storage device, said personal data

6   assistant, said pager, or said wireless phone.

7

1   29. (Newly Added) The communication interface device in accordance with claim 27

2   wherein, a user effectuates the data communication between said communication

3   interface and said in-vehicle device by physically carrying the data

4   communication device between said in-vehicle device and said communication

5   interface.

6

1   30. (Newly Added) The method of monitoring the location of a vehicle in accordance

2   with claim 8, wherein command and control data can includes enabling or

3   disabling operation of said vehicle.

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